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DATE MAILED: 11/18/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,774	07/28/2003	Hideo Nakai	240878US0X	4294
22850	7590 11/18/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			DUDA, RINA I	
	RIA, VA 22314		ART UNIT	PAPER NUMBER
			2837	

Please find below and/or attached an Office communication concerning this application or proceeding.

			92
	Application No.	Applicant(s)	—
	10/627,774	NAKAI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Rina I Duda	2837	
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with t	he correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed) days will be considered timely, from the mailing date of this commun ONED (35 U.S.C. § 133).	· nication.
Status		,	
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.		
3) Since this application is in condition for allowa	•	•	rits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	I, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-10</u> is/are rejected.		•	
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin		–	
10)⊠ The drawing(s) filed on <u>28 July 2003</u> is/are: a			
Applicant may not request that any objection to the			40474)
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		-	
11) The bath of declaration is objected to by the E	xammer. Note the attached Of	nice Action of form PTO-T	JZ.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		9(a)-(d) or (f).	
1. Certified copies of the priority documen		ication No	
2. Certified copies of the priority documen3. Copies of the certified copies of the priority	• •		
application from the International Burea		cived in this Hational Otag	,0
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	eived.	
			•
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Sumr		•
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ail Date nal Patent Application (PTO-152	١
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>10/27/03</u>. 	6) Other:	nai ratent Application (PTO-152	,

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what applicant means by addition current measuring device, are these extra current sensors or just a name?

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by lijima et al (US Patent 6462491).

Although claims 2-7 have been rejected under 112, second paragraph for being unclear, the examiner has applied prior art against the subject matter of claims 2-7 as it is best understood.

Claims 1 and 2, lijima et al describe a motor control apparatus comprising current sensors 21u and 21v for measuring the current of two of the motor windings and a

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control signal generating circuit 22 for estimating a state of the motor and controlling the current through the motor based on the measured current signals.

Claims 3, 4, 8, lijima et al describe in figure 27 a neutral point measuring device and a control signal processing circuit for determining the state of the motor based on signals from phase currents and the neutral current signal.

Claims 5, 6, and 9, lijima et al describes at least two of the three motor phases being independent.

Claims 7 and 10, lijima et al describes in figure 1 a control apparatus for a threephase motor.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rina I Duda whose telephone number is 571-272-2062.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on 571-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

meduda